

AMENDMENTS TO THE CLAIMS

Amend claims 1, 10, 12, 14, 16-17, 20, 22, 31, 33, 35, 37, 39, 40, 43, 45, 54, 63 and 66.

Cancel claims 3-9, 11, 13, 15, 18-19, 21, 24-30, 32, 34, 36, 38, 41-42, 44, 47-53, 55-62, 64-65 and 67.

1. (CURRENTLY AMENDED) An exercise device comprising (a) a frame defining a transverse axis, (b) first and second foot supports operably associated with the frame for traveling along a closed loop path relative to the transverse axis wherein the closed loop path defines a stride length, (c) a heart rate monitor,, and (d) a means for automatically adjusting the stride length of the closed loop path traveled by the foot supports based upon a heart rate sensed by the heart rate monitor, (e) a guide arm pivotally attached to the frame, (f) a transversely extending drive shaft rotatably attached to the frame and extending along the transverse axis, (g) an extension element extending away from the transverse axis and fixedly attached to the drive shaft for unitary rotation with the drive shaft, and (h) first and second foot links each supporting a foot support and having (i) first and second ends, (ii) a first end portion pivotally attached to the extension element at a point spaced from the transverse axis for travel along a closed loop path relative to the transverse axis, and (iii) a second end portion pivotally supported by the guide arm for longitudinal travel of the second end portion of the foot link along an arcuate reciprocating path.

2. (ORIGINAL) The exercise device of claim 1 wherein the closed loop path is an elliptical path.

3. (CANCELLED).

4. (CANCELLED).

5. (CANCELLED).

6. (CANCELLED).

7. (CANCELLED).

8. (CANCELLED).
9. (CANCELLED).
10. (CURRENTLY AMENDED) The exercise device of claim [[8]] 1 wherein the extension element is a drive pulley.
11. (CANCELLED).
12. (CURRENTLY AMENDED) The exercise device of claim [[8]] 1 wherein the extension element is a crank shaft.
13. (CANCELLED).
14. (CURRENTLY AMENDED) The exercise device of claim [[8]] 1 wherein the first end portion of each foot link is directly pivotally attached to the extension element.
15. (CANCELLED).
16. (CURRENTLY AMENDED) The exercise device of claim [[8]] 1 wherein the first end portion of each foot link is indirectly pivotally attached to the extension element.
17. (CURRENTLY AMENDED) The exercise device of claim [[4]] 1 wherein the first end portion of each foot link is indirectly pivotally attached to the extension element via an intermediate linkage system wherein the intermediate linkage system is (i) pivotally attached at a proximal point to the foot link, (ii) pivotally attached at a distal point to the frame, and (iii) pivotally attached to the extension element intermediate the proximal and distal points of attachment.
18. (CANCELLED).

19. (CANCELLED).
20. (CURRENTLY AMENDED) The exercise device of claim [[4]] 17 wherein the first end of each foot link travels along a non-circular arcuate path relative to the transverse axis.
21. (CANCELLED).
22. (CURRENTLY AMENDED) An exercise device comprising (a) a frame defining a transverse axis, (b) first and second foot supports operably associated with the frame for traveling along a closed loop path relative to the transverse axis wherein the closed loop path defines a stride height, (c) a heart rate monitor, and (d) a means for automatically adjusting the stride height of the closed loop path traveled by the foot supports based upon a heart rate sensed by the heart rate monitor, (e) a guide arm pivotally attached to the frame, (f) a transversely extending drive shaft rotatably attached to the frame and extending along the transverse axis, (g) an extension element extending away from the transverse axis and fixedly attached to the drive shaft for unitary rotation with the drive shaft, and (h) first and second foot links each supporting a foot support and having (i) first and second ends, (ii) a first end portion pivotally attached to the extension element at a point spaced from the transverse axis for travel along a closed loop path relative to the transverse axis, and (iii) a second end portion pivotally supported by the guide arm for longitudinal travel of the second end portion of the foot link along an arcuate reciprocating path.
23. (ORIGINAL) The exercise device of claim 22 wherein the closed loop path is an elliptical path.
24. (CANCELLED).
25. (CANCELLED).
26. (CANCELLED).
27. (CANCELLED).

28. (CANCELLED).

29. (CANCELLED).

30. (CANCELLED).

31. (CURRENTLY AMENDED) The exercise device of claim ~~[[30]]~~ 22 wherein the means for automatically adjusting the stride height of the closed loop path traveled by the foot supports comprises a means for adjusting the distance between the point at which the guide arm is pivotally attached to the frame and the point at which the guide arm is pivotally attached to the second end portion of each foot link.

32. (CANCELLED).

33. (CURRENTLY AMENDED) The exercise device of claim ~~[[30]]~~ 22 wherein the extension element is a drive pulley.

34. (CANCELLED).

35. (CURRENTLY AMENDED) The exercise device of claim ~~[[30]]~~ 22 wherein the extension element is a crank shaft.

36. (CANCELLED).

37. (CURRENTLY AMENDED) The exercise device of claim ~~[[30]]~~ 22 wherein the first end portion of each foot link is directly pivotally attached to the extension element.

38. (CANCELLED).

39. (CURRENTLY AMENDED) The exercise device of claim ~~[[30]]~~ 22 wherein the first end portion of each foot link is indirectly pivotally attached to the extension element.

40. (CURRENTLY AMENDED) The exercise device of claim [[25]] 22 wherein the first end portion of each foot link is indirectly pivotally attached to the extension element via an intermediate linkage system wherein the intermediate linkage system is (i) pivotally attached at a proximal point to the foot link, (ii) pivotally attached at a distal point to the frame, and (iii) pivotally attached to the extension element intermediate the proximal and distal points of attachment.

41. (CANCELLED).

42. (CANCELLED).

43. (CURRENTLY AMENDED) The exercise device of claim [[25]] 40 wherein the first end of each foot link travels along a non-circular arcuate path relative to the transverse axis.

44. (CANCELLED).

45. (CURRENTLY AMENDED) An exercise device comprising (a) a frame defining a transverse axis, (b) first and second foot supports operably associated with the frame for traveling along a closed loop path relative to the transverse axis wherein the closed loop path defines a stride length and a stride height, (c) a heart rate monitor, and (d) a means for automatically adjusting the stride length and stride height of the closed loop path traveled by the foot supports based upon a heart rate sensed by the heart rate monitor, (e) a guide arm pivotally attached to the frame, (f) a transversely extending drive shaft rotatably attached to the frame and extending along the transverse axis, (g) an extension element extending away from the transverse axis and fixedly attached to the drive shaft for unitary rotation with the drive shaft, and (h) first and second foot links each supporting a foot support and having (i) first and second ends, (ii) a first end portion pivotally attached to the extension element at a point spaced from the transverse axis for travel along a closed loop path relative to the transverse axis, and (iii) a second end portion pivotally supported by the guide arm for longitudinal travel of the second end portion of the foot link along an arcuate reciprocating path.

46. (ORIGINAL) The exercise device of claim 45 wherein the closed loop path is an elliptical path.

47. (CANCELLED).

48. (CANCELLED).

49. (CANCELLED).

50. (CANCELLED).

51. (CANCELLED).

52. (CANCELLED).

53. (CANCELLED).

54. (CURRENTLY AMENDED) The exercise device of claim ~~[[53]]~~ 45 wherein the means for automatically adjusting the stride length and stride height of the closed loop path traveled by the foot supports comprises a means for adjusting the distance between the point at which the guide arm is pivotally attached to the frame and the point at which the guide arm is pivotally attached to the second end portion of each foot link.

55. (CANCELLED).

56. (CANCELLED).

57. (CANCELLED).

58. (CANCELLED).

59. (CANCELLED).

60. (CANCELLED).

61. (CANCELLED).

62. (CANCELLED).

63. (CURRENTLY AMENDED) The exercise device of claim [[48]] 45 wherein the first end portion of each foot link is indirectly pivotally attached to the extension element via an intermediate linkage system wherein the intermediate linkage system is (i) pivotally attached at a proximal point to the foot link, (ii) pivotally attached at a distal point to the frame, and (iii) pivotally attached to the extension element intermediate the proximal and distal points of attachment.

64. (CANCELLED).

65. (CANCELLED).

66. (CURRENTLY AMENDED) The exercise device of claim [[48]] 63 wherein the first end of each foot link travels along a non-circular arcuate path relative to the transverse axis.

67. (CANCELLED).